

20 FEB 1963
OUT 50647
25X1
PRIORITY
1963 FEB 20

GROUP 1
Excluded from automatic
downgrading and
declassification

- 2 -

- (1) CONE ANGLE OF NOT LESS THAN 28 TO 30 DEGREES
 - (2) FOCAL LENGTH NOT GREATER THAN 3 IN. DEPENDING ON CONE ANGLE SELECTED
 - (3) ROUND FORMAT
 - (4) FIDUCIAL MARKS
 - (5) SHRINKAGE REFERENCE MARKS (RESEAU)
 - (6) COMPLETELY BLACKENED THROUGHOUT, INCLUDING LENS MOUNT AND INTERIOR OF CAMERA
 - (7) ADEQUATELY BAFFLED SO THAT EARTH FLARE IS ELIMINATED
 - (8) SEPARATE FILM FEED
 - (9) BETWEEN THE LENS SHUTTER
 - (10) BINARY TIME (29 BITS) ON EACH EXPOSURE
 - (11) COMPLETE CALIBRATION OF THE ORIENTATION BETWEEN STELLAR AND INDEX CAMERAS
 - (12) CALIBRATION OF PRINCIPAL POINT, FOCAL LENGTH, AND LENS DISTORTION
 - (13) PROVISION FOR 1/4 TO 4 SECONDS EXPOSURE TIME. SPEED OF FILM EITHER TO BE COMMENSURATE TO THE AMOUNT OF RADIATION IN ENVIRONMENT, OR FILM PATH TO BE SHIELDED TO PERMIT THE USE OF FASTER FILMS.
 - (14) CYCLE TIME: TWO TO FIVE SECONDS
 - (15) OPERATION INDEPENDENT OF ANY OTHER CAMERA
- B. INDEX CAMERA
- (1) 3 TO 6 IN. FL WITH CONE ANGLE GREATER THAN 45 DEGREES. FL AND FORMAT SIZE TO DEPEND ON WEIGHT LIMITATIONS.

- 3 -

IF WEIGHT IS NO PROBLEM 6 IN. FL PREFERRED. FL SHOULD NOT BE LESS THAN 3 IN. LENS SHOULD HAVE HIGH RESOLVING POWER.

- (2) FIDUCIAL MARKS
- (3) SHRINKAGE REFERENCE MARKS (RESEAU)
- (4) CALIBRATION FOR POSITION OF PRINCIPAL POINT, FOCAL LENGTH AND LENS DISTORTION
- (5) SEPARATE FILM FEED
- (6) BETWEEN THE LENS SHUTTER
- (7) BINARY TIME (29 BITS) ON EACH EXPOSURE
- (8) OPERATION INDEPENDENT OF ANY OTHER CAMERA
- (9) SQUARE FORMAT
- (10) BLACKENED AND BAFFLED THROUGHOUT
- (11) CYCLE TIME TO ASSURE 60-65 PERCENT OVERLAP
- (12) SHUTTER SPEED RANGE AS DICTATED BY PAST EXPERIENCE GAINED WITH CORONA MISSIONS.

3. INCORPORATE "END OF PASS MARKER" FOR BOTH S AND I CAMERAS.

T O P S E C R E T